

**WHAT IS CLAIMED IS:**

1. (Currently amended) Transgenic mammalian non-human animal expressing a multimutated form of presenilin 1 and allowing an apoptotic phenomenon to be detected in a renewable peripheral tissue.
2. (original) Transgenic animal according to claim 1, characterized in that it allows an apoptotic phenomenon to be detected in its lymphocytes.
3. (Currently amended) Transgenic Animal animal according to claim 2, characterized in that it allows an apoptotic phenomenon to be detected in its T lymphocytes.
4. (Currently amended) Transgenic animal according to claim 1, characterized in that the mutations in the PS1 gene are the at least three mutations selected from the group consisting of M146L, H163R, A246E, L286V, C410Y, I143T, L235P, P264L, P267S, E317G, G384A, L392V, A426P ~~and/or and~~ P436S.
5. (original) Animal according to claim 4, characterized in that the mutations are M146L, H163R, A246E, L286V, C410Y, combined with each other.
6. (Previously presented) A method for detecting compounds intended for the treatment of neurodegenerative diseases, comprising exposing said compounds to the animal of any one of claims 1 to 5.
7. (Previously presented) Cell extracted from the animal of any one of claims 1 to 5.
8. (Previously presented) A method for detecting compounds intended for the treatment of neurodegenerative diseases comprising exposing said compounds to said cell of any one of claims 1 to 5.